

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

In the Application of:

Najmuddin, Ilyas Juzer

Serial No.: 10/081,090

Filed: February 22, 2002

For: Method and Apparatus  
For Detecting Fractures  
Using Frequency Data  
Derived from Seismic Data

Group Art. Unit:2862

Examiner: Taylor

Atty. Docket: 94.0048

## Certificate of Faxing [37 CFR 1.8(a)]

I hereby certify that this correspondence is being transmitted  
as a facsimile to 703-746-4509, attn. Mr. Taylor on March  
14, 2003Name of the person signing this certificate: Danita JM  
Signature: Danita JM MasilesPRELIMINARY AMENDMENTHonorable Assistant Commissioner  
of Patents  
Washington, D.C. 20231

Dear Sir or Madam:

This is a preliminary amendment.

AMENDMENTS

Please amend this application as follows:

## I. In The Claims

Please amend the claims as follows:

Subj  
a

1. (Amended) A method of detecting fractures in a fractured zone in an Earth formation, comprising the steps of:
  - a. propagating a plurality of acoustic waves through the fractured zone so that the plurality of acoustic waves reflect off a horizon in the formation;

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Attorney Docket No. 94.0048

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MAR 14 2003

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TECHNOLOGY CEN., MAR. 2003

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